

Fusion technology

CONTENTS / JANUARY 2000—VOL. 37, NO. 1

TECHNICAL PAPERS

- 1 Progress in U.S. Fusion Safety and Environmental Activities over the Last Decade / *David Petti, Kathryn McCarthy*
- 24 Plasma-Deposited Beryllium Carbide Coatings for Application to Inertial Confinement Fusion / *Wu-Sheng Shih, R. B. Stephens, W. J. James*
- 32 A Numeric Study of the Dependence of the Surface Temperature of Beta-Layered Regions on Absolute Thickness / *Peter S. Ebey, Thomas J. Asaki, James K. Hoffer*
- 38 An Experimental Examination of the Loss-of-Flow Accident Phenomenon for Prototypical ITER Divertor Channels of $Y = 0$ and $Y = 2$ / *Theron D. Marshall, Jimmie M. McDonald, Lee C. Cadwallader, Don Steiner*
- 54 Adsorption Isotherms for Tritium on Various Adsorbents at Liquid Nitrogen Temperature / *Yoshinori Kawamura, Mikio Enoeda, R. Scott Willms, Peter M. Zielinski, Richard H. Wilhelm, Masataka Nishi*
- 62 Development of a Tritium Cleanup System for a Large Helical Device Using Nonvolatile Getter Materials / *Takao Kawano, Yoichi Sakuma, Toshiki Kabutomori, Mamoru Shibuya*
- 68 The Effect of Pulse Operation on Tritium Permeation and Inventory in ITER's Plasma-Facing Components / *Christos Housiadas, Adolfo Perujo*
- 74 Free-Surface Shear Layer Instabilities on a High-Speed Liquid Jet / *Kazuhiro Itoh, Yoshiyuki Tsuji, Hideo Nakamura, Yutaka Kukita*
- 89 KDAS: General-Purpose Data Acquisition System Developed for KAIST-Tokamak / *Seong-Heon Seo, Wonho Choe, Hong-Young Chang, Seung-Ho Jeong*

DEPARTMENTS

- 96 Book Reviews
 - Atomic Physics in Hot Plasmas / reviewed by *Richard More*
 - Plasma Chemistry / reviewed by *Hans Conrads*
- 99 Meeting Report
 - Summary of the Seventh International Conference on Cold Fusion: Developing Techniques, Theories, Metallurgy, and Elucidation of Nuclear Ash, Vancouver, Canada, April 19–24, 1998 / *Mitchell Swartz*
- 102 Technical Reviewers Addendum